

## Storm Data and Unusual Weather Phenomena - October 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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### ARKANSAS, Northwest

(AR-Z001) BENTON, (AR-Z002) CARROLL, (AR-Z010) WASHINGTON, (AR-Z011) MADISON, (AR-Z019) CRAWFORD, (AR-Z029) SEBASTIAN

10/01/11 00:00 CST	0	Drought
10/31/11 23:59 CST	0	

Several precipitation events across the region during the month resulted in rainfall amounts that were near normal across much of northwestern and west-central Arkansas. As a result of this much needed rainfall, severe drought conditions that were prevalent across the region to begin the month were improved upon during the month. Monetary damage estimates resulting from the drought were not available.

CARROLL COUNTY --- 2.0 W EUREKA SPGS [36.40, -93.77]

10/11/11 17:18 CST	0	Hail (1.00 in)
10/11/11 17:18 CST	0	Source: Trained Spotter

With moist and unstable air in place over far eastern Oklahoma and western Arkansas, thunderstorms developed along a decaying frontal boundary during the afternoon hours. One of these storms was intense enough to produce large hail across Carroll County.

CARROLL COUNTY --- 2.0 NE BEAVER [36.49, -93.74]

10/12/11 16:55 CST	0	Hail (1.00 in)
10/12/11 16:55 CST	0	Source: Trained Spotter

CARROLL COUNTY --- 2.0 NW BERRYVILLE [36.39, -93.60]

10/12/11 18:03 CST	0	Tornado (EF0, L: 0.10 mi , W: 50 yd)
10/12/11 18:03 CST	0	Source: Public

Several people witnessed a brief tornado over open country northwest of Berryville, one of which photographed it. The tornado resulted in no known damage.

Thunderstorms developed along and ahead of a cold front moving through the region during the early evening hours. Instability and low level wind shear were marginal for long-lived, organized severe storms but the stronger storms produced large hail and a brief tornado.

### OKLAHOMA, Eastern

(OK-Z049) PUSHMATAHA, (OK-Z053) CHOCTAW, (OK-Z054) OSAGE, (OK-Z055) WASHINGTON, (OK-Z056) NOWATA, (OK-Z057) CRAIG, (OK-Z058) OTTAWA, (OK-Z059) PAWNEE, (OK-Z060) TULSA, (OK-Z061) ROGERS, (OK-Z062) MAYES, (OK-Z063) DELAWARE, (OK-Z064) CREEK, (OK-Z065) OKFUSKEE, (OK-Z066) OKMULGEE, (OK-Z067) WAGONER, (OK-Z068) CHEROKEE, (OK-Z069) ADAIR, (OK-Z070) MUSKOGEE, (OK-Z071) MCINTOSH, (OK-Z072) SEQUOYAH, (OK-Z073) PITTSBURG, (OK-Z074) HASKELL, (OK-Z075) LATIMER, (OK-Z076) LE FLORE

10/01/11 00:00 CST	0	Drought
10/31/11 23:59 CST	0	

Several precipitation events during the month produced beneficial rainfall across portions of east-central Oklahoma but given the long-term shortage of precipitation across the area, it had little impact on the long-term drought. The northeastern and southeastern portion of the state experienced another month of below normal precipitation with some areas receiving between 10 and 25 percent of normal precipitation, so drought conditions in those regions persisted or even worsened in some cases. Severe to extreme drought conditions continued across all of northeastern and east-central Oklahoma while southeastern Oklahoma continued to experience exceptional drought conditions in October. Monetary damage estimates resulting from the drought were not available.

CREEK COUNTY --- BRISTOW [35.83, -96.38]

10/17/11 18:30 CST	0	Hail (0.75 in)
10/17/11 18:30 CST	0	Source: COOP Observer

OSAGE COUNTY --- 1.0 SW SKIATOOK [36.36, -96.01]

10/17/11 19:00 CST	0	Hail (0.75 in)
10/17/11 19:06 CST	0	Source: Broadcast Media

Strong to severe thunderstorms developed along and behind a cold front as it moved rapidly into northeastern Oklahoma during the early evening hours. The stronger storms produced some hail.

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<b>OKFUSKEE COUNTY --- 4.0 NNW PADEN [35.55, -96.60], 5.0 NE BOLEY [35.55, -96.42]</b>				
	10/22/11 17:07 CST		75K	Hail (4.00 in)
	10/22/11 17:29 CST		0	Source: NWS Storm Survey
A supercell thunderstorm produced a broad swath of damage that was the result of wind-driven hail up to about four inches in diameter. The wind-driven hail destroyed the roofs and sides of homes, broke many windows from homes and automobiles, and stripped trees of leaves and even bark in some cases. Witnesses indicated that the hail lasted for about 20 minutes in some locations and several inches of hail was still piled up against homes the next morning before it completely melted.				
<b>OKFUSKEE COUNTY --- 2.0 S PADEN [35.47, -96.57], 2.0 ESE BOLEY [35.49, -96.45]</b>				
	10/22/11 17:30 CST		50K	Hail (4.00 in)
	10/22/11 17:45 CST		0	Source: NWS Storm Survey
A second supercell thunderstorm produced a broad swath of damage as a result of wind-driven hail up to about four inches in diameter. The wind-driven hail destroyed the roofs and sides of homes, broke out windows from homes and automobiles, and stripped trees of leaves and even the bark in some cases. Witnesses indicated that the hail lasted for about 20 minutes in some locations and several inches of hail was still piled up against homes the next morning before it completely melted.				
<b>OKMULGEE COUNTY --- 2.0 N BEGGS [35.76, -96.07]</b>				
	10/22/11 17:45 CST		10K	Thunderstorm Wind (EG 61 kt)
	10/22/11 17:45 CST		0	Source: Emergency Manager
Strong thunderstorm wind blew the roof off of a barn and blew down several trees and power lines.				
<b>OKFUSKEE COUNTY --- 4.0 NNW BEARDEN [35.40, -96.41], 2.0 SE OKEMAH [35.41, -96.27]</b>				
	10/22/11 17:50 CST		0.10M	Hail (4.00 in)
	10/22/11 18:20 CST		0	Source: NWS Storm Survey
The second and southernmost supercell continued to move slowly east-southeast leaving a broad swath of damage in its wake as a result of wind-driven hail up to about four inches in diameter. The wind-driven hail destroyed the roofs and siding of homes, broke windows out of homes and automobiles, and stripped trees of leaves and even bark in some cases. Witnesses indicated that the hail lasted for about 20 minutes in some places and several inches of hail was still piled up against homes the next morning before it completely melted.				
<b>OKFUSKEE COUNTY --- OKEMAH [35.43, -96.30]</b>				
	10/22/11 18:10 CST		25K	Thunderstorm Wind (EG 65 kt)
	10/22/11 18:10 CST		0	Source: Emergency Manager
Emergency management reported trees and power lines blown down by strong thunderstorm wind in and south of town. Minor structural damage was also done to mobile homes.				
<b>TULSA COUNTY --- 2.0 E OWASSO [36.27, -95.81]</b>				
	10/22/11 18:13 CST		0	Hail (0.75 in)
	10/22/11 18:13 CST		0	Source: Trained Spotter
<b>ROGERS COUNTY --- CATOOSA [36.18, -95.75]</b>				
	10/22/11 18:29 CST		0	Hail (1.00 in)
	10/22/11 18:29 CST		0	Source: Public
<b>OKFUSKEE COUNTY --- 0.7 NNW WELEETKA [35.34, -96.14]</b>				
	10/22/11 18:34 CST		0	Hail (0.88 in)
	10/22/11 18:34 CST		0	Source: Emergency Manager
<b>OKMULGEE COUNTY --- 4.5 W HECTOR [35.84, -96.00]</b>				
	10/22/11 18:40 CST		0	Thunderstorm Wind (MG 62 kt)
	10/22/11 18:40 CST		0	Source: Mesonet
The Oklahoma Mesonet station located west of Hectorville measured 71 mph thunderstorm wind gusts.				
<b>OKMULGEE COUNTY --- 4.5 W HECTOR [35.84, -96.00]</b>				
	10/22/11 18:45 CST		0	Thunderstorm Wind (MG 60 kt)
	10/22/11 18:45 CST		0	Source: Mesonet

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The Oklahoma Mesonet station west of Hectorville measured 69 mph thunderstorm wind gusts.

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**PITTSBURG COUNTY --- 0.9 SE SCIPIO [35.04, -95.96]**

	10/22/11 20:13 CST		0	Thunderstorm Wind (EG 52 kt)
	10/22/11 20:13 CST		0	Source: COOP Observer

Strong thunderstorm wind blew down large tree limbs.

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**LE FLORE COUNTY --- SHADY PT [35.13, -94.67]**

	10/22/11 20:48 CST		0	Thunderstorm Wind (EG 65 kt)
	10/22/11 20:48 CST		0	Source: Law Enforcement

Strong thunderstorm wind blew down a large tree.

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**CHOCTAW COUNTY --- 1.3 WNW HUGO [34.03, -95.54]**

	10/22/11 22:10 CST		0	Thunderstorm Wind (MG 58 kt)
	10/22/11 22:10 CST		0	Source: Mesonet

The Oklahoma Mesonet station near Hugo measured 67 mph thunderstorm wind gusts.

A warm frontal boundary returned northward into southeastern Oklahoma by the afternoon hours of August 22nd ahead of a strong upper level disturbance that translated southeastward into the Southern Plains. Warm and moist air returned northward into eastern Oklahoma ahead of this disturbance. By late afternoon, the atmosphere had become moderately unstable and thunderstorms initiated north of the warm front over north central Oklahoma. These storms moved east and southeast into northeastern Oklahoma during the early evening resulting in large hail and damaging wind gusts. Additional storms developed closer to the warm front later in the evening. Plenty of wind shear existed in the low and mid levels of the atmosphere and combined with the instability, the environment supported the development of several supercell thunderstorms. These storms affected Okfuskee, McIntosh, Pittsburg, and Okmulgee Counties with hail up to softball size and widespread damage from wind-driven hail. These storms later evolved into a squall line, which produced damaging wind gusts across portions of southeastern Oklahoma.